FlyBy Math™ Alignment
South Dakota Mathematics Content Standards
May 17, 2004

Algebra Standards

Indicator 2: Use a variety of algebraic concepts and methods to solve equations and inequalities.

Standard and Supporting Skills	*FlyBy Math*™ Activities
9-12.A.2.2A. (Application) Determine the solution of systems of equations and systems of inequalities.	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios. --Represent distance, speed, and time relationships for constant speed cases using linear equations and a Cartesian coordinate system. --Use graphs to compare airspace scenarios for both the same and different starting conditions and the same and different constant (fixed) rates.

Indicator 3: Interpret and develop mathematical models.

Standard and Supporting Skills	*FlyBy Math*™ Activities
9-12.A.3.2A. (Synthesis) Create formulas to model relationships that are algebraic, geometric, trigonometric, and exponential.	--Use the distance-rate-time formula to predict and analyze aircraft conflicts. --Represent distance, speed, and time relationships for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system.

Statistics and Probability Standards

Indicator 1: Use statistical models to gather, analyze, and display data to draw conclusions.

Standard and Supporting Skills	*FlyBy Math*™ Activities
9-12.S.1.2A. (Evaluation) Analyze and evaluate graphical displays of data.	--Choose among tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes. --Use tables, bar graphs, line graphs, equations, and a Cartesian coordinate system to draw conclusions.